

BIO-DATA



Name : Dr.A.Sailakumari

Designation : Assistant professor 04/02/2011-04/02/2023

Designation : Associate Professor of Mathematics

Father's Name : Dr. A.Rami Reddy ,Retd. veterinary surgeon

Husband's Name: Dr.E.Keshava reddy

Nationality : Indian

Religion : Hindu

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Details of Educational qualification:

Exam passed	Board(or)University	Division	% of Marks	Specialization
Ph.D.	S.V. University, Tirupati			Fluid mechanics (Some theoretical studies in Hydrodynamic lubrication)
M.Phil.	S.V.University, Tirupati.	First	72.3	Fluid mechanics (Viscosity variation in Journal Bearings)
PGDCA	A.P Productivity council, Tirupati.	First with Distinction	72	C,C++
M.sc	S.P.Mahila viswa Vidyalaya, Tirupati.	First with Distinction	78	Continuum mechanics, operations research
B.Sc	Sri.Y.S.R.R Loyola Degree college, Pulivendla. S.V.University.	First with Distinction	87	Mathematics, Physics, Chemistry
Intermediate	Board of Intermediate education, Govt. Junior college, Pulivendla.	First	69	Mathematics, Physics, Chemistry.
S.S.C	Board of Secondary education St.Anns(Telugu medium)Girls High School, Pulivendla.	First	66	English, Hindi, Telugu, Maths, Science, Social.

Teaching Experience

:21– Years

Research Experience : 20 – Years

Seminars, conferences, Symposia, Workshops etc. attended

Name of the Seminar/Conference/Symposia Workshop, etc.	Topic and (Paper presented or attended)	Name of the sponsoring Agency, Place and Date
(i) Applications of differential equations to Mathematical sciences.	Effects of viscosity variation in Journal Bearings.	S.K. University, Anantapur, 30-6-1997
(1) National conference on advances in Mathematical sciences	Analysis of Load carrying capacity of squeeze film Elliptical bearing operating with couple stress fluid.	S.V. University, Tirupati, March 28-29, 2011.
(2) National conference on application of mathematics in Engineering sciences.	“Static performance of short elliptical squeeze film bearing operating with couple stress fluid”.	Andhra University, Vizaj, June 29-30, 2011
(3) Science Academies lecture workshop on Mathematical Modelling in Science and engineering.	Attended.	S.V. University, Tirupati, January 24-25, 2012.
(4) National conference on recent trends in Fluid mechanics	Attended.	S.V. University, Tirupati, March 14-15, 2012.
(5) National seminar on “Recent developments in Number theory and Graph theory”	Attended.	S.K. University, Anantapur, 22-23 December, 2012.

(6)International conference on Science ,technology and Management.	Effects of viscosity variation in Journal bearings.	SITAMS,Chittoor.
(7)National workshop on “Computational methods in Engineering and science”.	Attended. .	NIT,Warangal.From 21 st -25 th October,2013.
(8)UGC National seminar on “Recent developments in Algebra and its applications to science and technology”.	‘A theoretical study on the performance of Elliptical journal bearings”.	S.K.University,Anantapur.From 29th-30 th .November,2013.
(9)National seminar on “renewable energy sources”.	attended	Conducted by Department of Mechanical Engineering,JNTUA,CEA on 8 th March 2014.
(10)”Computational methods for flow and Heat transfer Analysis-application of CFD tools”.	attended	Two week Faculty development programme sponsored by Mechanical Engineering Department from 10 th to 23 rd March 2014.
(11)A Two-week ISTE workshop on “Fluid Mechanics”.	Attended in Gokaraju rangaraju Institute of Engineering college,HYd	Conducted by IIT Kharagpur, in the month of May from 20 th to 30 th ,2014 held under National Mission on Education through ICT (MHRD).
(12)Oneday workshop on Human values and Professional ethics titled “Engineering inner excellence”.	Attended.	Conducted by JNTUA, Anantapuram (Autonomous) on 5 th July 2014.
	“Static performance	

(13) "International conference on Mathematical Sciences" (ICMS-2014).	of Elliptical bearings operating with couple stress fluid" Attended.	Conducted by Satyabama University, Chennai. From July 17 th to 19 th , 2014.
(14) "IIInd International conference on Applications of Fluid dynamics".	Attended.	Conducted by S.V. University, Tirupati. From July 21 st to 23 rd , 2014.
(15) Three day national seminar on "Industrial practices of Computational fluid dynamics".	Attended.	Conducted by Department of Mechanical Engineering, JNTUA, CEA, Anantapur. From 21 st to 23 rd August.
(16) Two day workshop sponsored by U.G.C. New Delhi on Outcome based education approach in Engineering curriculum.	Attended.	Conducted by JUTUA, college of Engineering, Anantapuram. During 26 th to 27 th August 2014.
(17) Two day State level NSS youth festival.	Participated.	Conducted by JUTUA, Anantapuram. During 12 th to 13 th February, 2015.
(18) Faculty Development Programme on "Agile Methodologies"	Participated.	Conducted by JUTUA, college of Engineering, Anantapuram. held on 25-Feb-2015.
(19) Faculty Development Programme on "How to teach Mathematics to Engineering Students".	Participated.	Conducted by Department of Mathematics, JUTUA, college of Engineering, Anantapuram. During 14 th to 15 th March 2015.
(20) Faculty Development programme on "Programming in C and Data structures".	Attended.	Conducted by JUTUA, college of Engineering, Anantapuram. During 25 th to 26 th March 2015.
(21) Short term training	Participated.	Organized by Department of Mathematics, NIT, Warangal. From

<p>program on “Advanced Numerical methods in Fluid dynamics.</p> <p>(22)Two week entrepreneurship development program.</p> <p>(23)International conference on mathematical sciences</p> <p>(24)One day conference on “Awareness of IT/ITES job roles & big data analytics”,</p> <p>(25)One day workshop on “Role of women in Engineering education through IEEE”.</p> <p>(26)One day workshop on “Cyber Security”.</p> <p>(27) Two week (four week online)ISTE STTP On “Technical education for scientists and engineers.”</p> <p>(28)One day workshop on</p>	<p>Participated and presented a paper “Effects of viscosity variation on squeeze film characteristics of long journal bearing operating with Non newtonian fluids.</p> <p>Participated.</p> <p>Participated.</p> <p>Participated.</p> <p>Participated and attended for 7days face to face interaction in VNR VJIET,Hyderabd.</p> <p>Participated.</p> <p>Participated and</p>	<p>17th -19th April,2015.</p> <p>Organized by Entrepreneur development cell,Jntuace,Anantapuramu during 6th-18th July 2015</p> <p>Conducted by department of Mathematics, Sri Venkateswara university, Tirupati. During 13-15 July 2015.</p> <p>Conducted by JUTUA, college of Engineering , Anantapuram. On 20th August,2015.</p> <p>Conducted by JUTUA, college of Engineering , Anantapuram. On 19th September,2015.</p> <p>Conducted by JUTUA, college of Engineering , Anantapuram. On 8th October,2015.</p> <p>Conducted by IIT Bombay, in the month of 8th October to 18th November,2015 held under National Mission on Education through ICT (MHRD).</p> <p>Conducted by JUTUA, college of Engineering , Anantapuram. On 9th</p>
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<p>“Innovations in technology”.</p> <p>(29)International conference on “computational, Mathematical and Biological modeling”</p>	<p>presented a paper on “ “effects of viscosity variation o squeeze film characteristic of long journal bearing operating with couple stress fluid”.</p>	<p>December,2015.</p> <p>Conducted by department of Mathematics, Padmavati Mahila university, Tirupati. During 25th and 26th March 2016.</p>
<p>(30) Four week(16 week online) FDP on “Use of ICT in education for on line and blended learning”</p>	<p>Participated and attended for 6 days face to face interaction.</p>	<p>Conducted by IIT Bombay in the month of May 2nd to Aug 13th(2016) under National Mission on Education through ICT (MHRD).</p>
<p>(31)6th International conference on Research Trends in Engineering, Applied science and Management(ICRTE SM-2017)</p>	<p>Presented and Participated a paper titled as “The effect of Micro polar lubricant on Noncircular Bearings”</p>	<p>Conducted by Institution of Electronics and Telecommunication Engineers.Bangaluru during 6th August,2017</p>
<p>(32)One day workdhop on” 21 st century Teaching Strategies”</p>	<p>Participated.</p>	<p>Conducted by JNTUA College of Engineering (Autonomous), Anantapuramu on 16th September2017.</p>
<p>(33))”International conference on Nonlinear Differential Equations-Theory,Modeling alnd Computations”</p>	<p>Participated and presented paper entitled “ Effect of slip</p>	<p>Conducted by SRM University,Kattankulathur,Chennai, During 08Th -09Th December -2017</p>
<p>(34)UGC-sponsored National conference on Academia digital transformation(Challenges</p>	<p>Participated and presented paper entitled ‘New Education Technology(Think-Pair-Share) in class room teaching.</p>	<p>Conducted bySSBN DegreeCollege:Anantapuramu in the month o December 2017(15th and 16th)</p>

and Opportunities (NCADT-2017)	Participated.	Conducted by SSBN Degree college(Autonomous) on 22nd and 23rd December 2017.
(35) Women Entrepreneurship(NWWE-2017)	Participated.	Conducted by Department of Humanities during from 11-15 June, 2018.
(36)One-Week Faculty Development Programme on Reinforcing professional communication skills for Teaching Faculty.	Participated and chair for one session	Conducted by Department of mathematics , Easwari engineering college, Chennai from 9-11-2018 to 10-11-2018.
(37)National conference on Recent trends in Pure and Applied Mathematics	Participated	conducted by Department of Humanities during 10-14 December ,2018
(38)One week faculty development programme on "Soft skills and Personality development"	Participated.	Organized by E&ICT Academy, National Institute of technology, Warangal at JUTUA college of Engineering (Autonomous).2019
39)One week faculty development programme on "Design and Development of MOOCS through swayam"	Participated.	Twinning programme , organized by Jntua college of engineering in association with University college of engineering and technology,Bikaner
40) Two day national workshop on START A STARTUP) in University college of engineering and		

technology, Bikaner under TEQIP III Programme .	Participated	under TEQIP III Programme during 14th-15th , February.
41) One-Week Faculty development program on Leadership skills.	Participated	Conducted by JNTUACollege of Egeineering, Anantapur& University college of Engineering, Anantapuramu during 19-24 August 2019.at Jntua,Cea
42)Three days work shop on “Experimental Approaches and Instrumental aspects in Analytical chemistry”		Organized by Chemical Engineering department, Jntua college of engineering (Autonomous) Ananthapuramu under TEQUP-III from 6th to 8th February 2019`
43) NPTEL Online certification from July – September 2019 (8week course) in the subject Operations Research with a consolidated score of 79%.	Participated	July – September 2019 (8week course)
44))“International Conference on Mathematical sciences land Applications”.	Participated.	Conducted by Department of Mathematics,School of Technology,GITAM(Deemed to be University),Hyderabad during August 9-11,2019
45)XXVIII Congress of APTSMS &National conference on Recent trends in Pure and Applied Mathematics .	Participated	conducted by Rashtriya Sanskrit vidyapeetha ,Department of Mathematics from 6th – 8th December 2019
46)Two-Week faculty development program on “Mathematical Modeling and		Organized by department of Chemical Engineering, JNTUA CE,Ananthapuramu during 24-02-2020 to 07-03-2020.

Simulation for Scientists & Engineers” .	Participated	
47) Seven Day International Virtual Faculty Development Programme on “RESEARCH FOR ACADEMIC EXCELLENCE” .	Participated and Presented a paper titled Cosmic Ray Diffusion and Evolution: 1D, 2D, and 3D Insights in the “International Conference on Pure and Applied Mathematics” (ICPAM-2023)	Organized by the Department of Mathematics, KPR College of Arts Science and Research, Coimbatore-641 407, Tamilnadu, India from 3rd to 8th August, 2023.
48) “International Conference on Pure and Applied Mathematics” (ICPAM-2023)		organized by Department of Mathematics, NIT Jalandhar & MNIT Jaipur from 26th - 28th October, 2023 in online mode.
49) National conference on Mathematics and its Applications – 2024 (NCMIA)	Participated and Deliver a talk on “Heat transfer in complex systems:Mathematical modelling of Radiative transfer equation in Celestial bodies.	Organized by Department of Mathematics,S.V.University, Tirupati during 22-23 December 2024.
50)International conference on advances in computational Mathematics and Applied Physical sciences.(ICACMAPS-2025)	Participated and presented a paper entitled “Heat Transfer in Complex systems: Mathematical modelling of Radiative Heat transfer in Astrophysical bodies” in the International conference advances in computational Mathematics and Applied Physical sciences.(ICACMAPS-2025)	Organized by Department of Humanities and Basic Sciences during 10-11 January 2025 at G.Pulla reddy Engineering College (Autonomous) ,Kurnool.

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International conferences attended: 4

National conferences(or seminars) attended : 12

National workshops attended : 14

Faculty development programs : 9

Short training Program : 1

Aicte ATAL Programmes attended : 3

Induction program UHV attended : 2

Online workshops and faculty development programmes attended - 19 (In Pandemic period 19-20,20-21)

Online courses (workshops and FDP) attended at covid 19-20,20-21

1)Attended and successfully completed NPTEL Online certification (Modified pass certificate) from Jan – April 2020 (8week course) in the subject “Graph theory and its applications” with a consolidated score of 73%.

2)Participated in two day National webinar on “Mathematics and its applications” (NWMA-2020)” held on 19th and 20th May, 2020 organized by Department of Mathematics in association with APTSMS.

3)Attended and successfully completed the “Effective and Efficient online Teaching in the Age of Corona, A Hands On Workshop”on 24th May 2020

organized by the Teaching Learning centre (ICT) at IIT Bombay, funded by (PMMMNMTH)MHRD .Govt. of India

4) Attended and successfully completed One week (Online) Faculty development programme on Latex & Technical report writing, 25 – 30 May, 2020 organized by Department of Mathematics, Kakatiya university, Warangal, telangana, in association with spoken tutorial, IIT Bombay.

5) Attended and successfully completed One week online course on “Operations Research for Industry and community Development “ from 27-05 -2020 to 02-06-2020 with the passing score of 63% on 03-06-2020. Organized by Besant Theosophical college ,Madanapalli.

6) Attended and successfully completed Three day online workshop on “ online course design, development and delivery” organized by UGC-HRDC University of Hyderabad from 28th to 30th June 2020.

7) Participated and successfully completed Two week FDP on Advanced concepts for developing MOOCS during 2nd to 17th JULY, 2020 under MHRD- sponsored by (PMMMNMTH)MHRD .Govt. of India Ramanujan College, University of Delhi.

8) Participated in a One week online National FDP on “ Mathematical elements in engineering and applied sciences(MEEAS-2020)” from 21-07-2020 to 25-07-2020. Organized by the department of Basic sciences and Humanities (Mathematics), Gayatri vidya Parishad College of engineering for women, Visakhapatnam.

9) Participated in the Webinar Dr. APJ Abdul kalam memorial global webinar Impact of covid-19 on the development of rural economy-challenges and opportunities on the 27th day of July 2020 organized by JNTUA, Anantapuramu under the LEAD INDIA Foundation.

10) Participated in the paper presentation session(chair for one session) in the International conference on advances in Science, Engineering and Mathematics held on 7th to 9th august 2020 in virtual mode Organized by Annamacharya Institute of technology and sciences, Rajempeta, in association with APTSMS.

11) Attended and successfully completed International faculty development programme on “Role of Applied sciences in Industry and Engineering” from 02-

08 -2020 to 06-08-2020 in virtual mode organized by Osmania university Hyderabad in association with APTSMS.

12) Participated and completed successfully AICTE training and learning (ATAL) Academy online FDP on “Developing consciousness (Transcendental Meditation)” from Sep 22nd to 26th.2020 at JNUTA, Anantapuramu.

13) Participated in Faculty development programme in Applied Numerical methods” organized by Department of Mathematics and Statistics from 28-09-2020 to 03-10-2020, University college for Women , Koti, Hyderabad

14) Participated and completed successfully AICTE training and learning (ATAL) Academy online FDP on “Ethics, Moral values , behavioral science and attitude ” from Oct 12th to 16th.2020 at College of Engineering, Trivendrum.

15) Participated in the “Science academies” lecture workshop on Linear Transformation, matrices and their Applications -2020” held in the department of Mathematics, S.V.U.College of Science,S.V.University, Tirupati from 02-11-2020 to 07-11-2020.

16) Participated and completed successfully AICTE training and learning (ATAL) Academy online FDP on “Leadership and Excellence” from Feb 1st to 5th 2021 at JNUTA, Anantapuramu.

17) Participated and successfully completed the 5-day online FDP on the theme” Inculcating Universal Human values in technical Education” organized by All India council for technical education (AICTE) from 22nd March to 26th March, 2021.

18) Participated in one week online National level Faculty Development program on “ Role of Mathematics in latest engineering trends” organized by the Department of Mathematics, under Department of Science and Humanities, Lords institute of Engineering and technology from 4th June to 10th June 2021.

19) Participated in the 8-day National Level online Faculty Development Program on “ How to make teaching learning process Effective & Outcomes based” Organized by department of Commerce in association of India Agricultural Research Institute , Indore, India held during 14th June to 21st June 2021.

20) Participated in the 9-day National level online Faculty development program on “Foregrounding the Spectrum of character building in Modern human life” organized by Department of Humanities and Sciences from 25th June to 03 July 2021. Balaji Institute of technology and Science, Narsampet Warangal Rural, Telangana.

21. Participated and successfully completed the 5-day online FDP on the theme “Inculcating Universal Human values in technical Education” organized by All India council for technical education (AICTE) from 12th July to 16th JULY, 2021.

22. Participated One week national level FDP on “Transformation in Indian education through New education policy-Challenges and Opportunities” organized by Government 1st grade college for Women, Mangalore from 5th July to 11th July 2021.

23. Participated in the two week Faculty development programme on “Research Advances in Mathematics and its Applications” organized by the Department of Mathematics, Satyabama Institute of Science and Technology, Chennai, from August 2 to August 14, 2021.

24. Participated two week Refresher course in Mathematics organized by Department of Mathematics, Ramanujan college, University of Delhi from 31st August to 14th September 2021.

25. Participated four week Induction /Orientation programme Organized by TLC, Ramanujan college, University of Delhi from 19th November to 18th December 2021 with Grade A.

26. Participated International conference on Recent trends in Mathematical sciences and applications organized by Gayathri Vidhya parishad college of Engineering, Visakhapatnam from 21st to 24th December 2021.

27. Participated one week FDP on ‘Research opportunities on funding Agencies’ organized by Research and Development, Krishna University, Machilipatnam from 27th July to 2nd July 2022.

28. Participated one week FDP on ‘Enhancing the academic and Intellectual Environment in the Higher educational Institutes’ organized by Research and

Development and Department of Mathematics , Krishna University,
Machilipatnam from 11th July to 16th July 2022.

29.Participated one week virtual International FDP on “ Smart tools and Methodologies and academic research” organized by Department of ECE, MGIT,HYD from 1st to 5th August 2022.

30. Participated four week Induction /Orientation programme Organized by TLC,Ramanujan college, University of Delhi from 21st August to 19th September 2022 with Grade A.

31.Attended **International Conference on Pure and Applied Mathematics (ICPAM-2023)**organized by *Department of Mathematics, NIT Jalandhar & MNIT Jaipur from 26th - 28th October, 2023 in online mode .*

32.successfully completed and received a passing grade in **SUCCESS:Learning Success** a course of study offered by **ColumbiaX**, an online learning initiative of **Columbia University**. (EDX) may 15th 2024.

33.presented the paper titled ***Cosmic Ray Diffusion and Evolution: 1D, 2D, and 3D Insights*** in the “*International Conference on Pure and Applied Mathematics*” (ICPAM-2023) organized by *Department of Mathematics, NIT Jalandhar & MNIT Jaipur from 26th - 28th October, 2023 in online mode.*

34.Participated in the Seven Day International Virtual Faculty DevelopmentProgramme on“RESEARCHFOR ACADEMIC EXCELLENCE” organized by the Department of Mathematics, KPR College of Arts Science and Research, Coimbatore-641 407, Tamilnadu, India from 3rdto 8thAugust, 2023.

35.Participated in the **One Week National level Online Faculty Development Program** on **Digital Pedagogy: ICT & AI assisted teaching in-line with OBE & NEP** organised by the **Internal Quality Assurance Cell (IQAC)** of **St. James College of Nursing and St. James College of Pharmaceutical Sciences, Chalakudy**in association with **The Kerala State Higher Education Council (KSHEC)** from **29 May 2024 to 05 June 2024**and has successfully completed all the assessments and secured an **A grade**.

36. Successfully completed and received a passing grade in **happy: Managing Happiness** a course of study offered by **HarvardX**, an online learning initiative of **Harvard University**.(EDX)

37. participated in the Skill training workshop on the title “AI Tools and advanced excel for enhancing paper writing and project report jointly organized by Vidhya vihar Institute of Technology ,Purnea, bihar, india and RSP Science hub, Coimbatore, Tamilnadu, India on 25/05/24.

38. Successfully completed and received a passing grade in **CFVM.PC2x: Cost of Capital** a course of study offered by NYIF, an online learning initiative of New York Institute of Finance through edX. June 20, 2024.

39. Successfully completed and received a passing grade in **ETFM2016.1x: Fundamentals of Market Structure** a course of study offered by NYIF, an online learning initiative of New York Institute of Finance. June 20, 2024

40. Successfully completed and received a passing grade in **RMPC1.3x: Risk Management Tools and Practices** a course of study offered by NYIF, an online learning initiative of New York Institute of Finance through edX. June 20, 2024

41. Successfully completed and received a passing grade in **RMPC1.5x: Stress Testing and Risk Regulation –Part 2** a course of study offered by NYIF, an online learning initiative of New York Institute of Finance through edX. June 20, 2024.

42. Successfully completed “Common yoga protocol training course” from June 1st to June 21st 2024 at Shree Hanuman Vyayam prasarak mandal, Amravati ,Maharashtra.

43. Participated in the two weeks short term training programme on “Research writing, Funding proposal development and patent drafting” jointly organized by Vidhya vihar institute of technology, Purnea, Bihar, India and RSP Science Hub, Coimbatore,, Tamilnadu, India during July 8th to July 20th 2024.

PERSONAL ACHIEVEMENTS:

1. Attended one orientation course at B.H.U,Varanasi. From May 21-June 17,2011.Obtained grade "A".
 2. Attended one Refresher course at S.V.University. From March 5-25,2012.Obtained grade"A".
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- 1) Acted as a Co coordinator in the National conference on Mathematics and its Applications to Engineering and Technology (NCMAET 2011).
 - 2) Worked as Co convener for "National workshop on Mathematical And Computational Methods in Fluid Dynamics(NWMCMFD'13)".From 10-01-2013 to11-01-2013.
 - 3) Worked as National Conference on Recent trends in Mathematics(NCRTM-2013). From 21-03-2013 to 22-03-2013
 - 4) Organized a one day "National conference on Vedic Mathematics" during 21st January 2014.
 - 5) Delivered a talk in one day National seminar on "Renewable energy sources".
 - 6) Delivered a talk on "incentives for women entrepreneurs" in the UGC sponsored workshop " Women as Entrepreneurs" held on 23/07/2016 at JNTUA,College of Engineering, Anantapur.
 - 7) One Minor Research Project(MRP) entitled 'Effects of slip on the steady state performance of hydrodynamic finite spiral journal bearing operating with micro polar fluids.,allotted (3 years of tenure) by UGC on 2nd August 2017 and completed in 2020 august.
 - 8) Served as Deputy warden for Shilpa hostels From 2013 - 2018
 - 9) Served as OAS/DCE from December 13th ,2017 to January 01,2021.
 - 10)Organized one day National workshop on LATEX and Data Science in University college of engineering and technology, Bikaner under TEQIP III Programme on February13th, 2019.
 - 11) Guided for 6 ph.ds(one co guide) and one M.Phil. 2 members (one co guide) are under guidance.
 - 12) Research project is sanctioned entitled 'Cosmic ray energy detector by using diodes and electrical components ,under research seed grant on13-9-2022.
 - 13) A book Authored entitled "Unsteady MHD flow of Burger's fluid with heat generation/absorption with stretching sheet" by **LAP LAMBERT Academic publishing**

Oct 2022.

<https://www.file2send.eu/en/download/LmyfdpAXjH8RBZYaUgzVN0X9w7RapBimzdze1yWzoIEgvZT5OS2mBzX7OtSUR4>. ISBN 978-620-5-51136-7

14) A book Authored entitled “Biostatistics and Research methodology” by **Research India publications, Delhi on Dec 2022. ISBN NO:978-93-92437-29-9.**

15) A book Authored entitled “Unsteady MHD Heat and mass transfer flow through a plate in porous medium in the presence of chemical reaction and heat absorption by **LAP**

LAMBERT Academic publishing Dec 2022.<https://www.lap-publishing.com>. ISBN 978-620-5-52876-1.

16) Served as Head of the Department of Mathematics from September 2022 to July 2023.

17) A book Authored entitled “A study on class of Inventory models with two levels of storage.” By **LAMBERT Academic publishing on 10-07-2023. ISBN:978-620-6-93720-3.**
<https://www.morebooks.shop/shop-ui/shop/book-launch-offer/484af6287333a3b4e3f4232e6a61d25df8ade60a>

18) LMS link : <https://apschelms.e-pragati.in/#/tutor/>

19) Acted as a Judge in the Declamation contest competition organized by Nehru Yuva Kendra , Anantapuramu. Govt. of Andhra Pradesh. At the Auditorium, JNTUA CEA on 19th November 2024.

LMS link:

1. <https://apschelms.e-pragati.in/#/videos?request=%2BGGzywXJclLW%2FOsSVz6OIA%3D%3D>.

2. <https://apschelms.e-pragati.in/#/videos?request=wrxLwBtJiUlf2%2F6dNzKL6Q%3D%3D>

3. <https://apschelms.e-pragati.in/#/videos?request=U%2BBHholS4rimlhqnCCAdDA%3D%3D>

4. <https://apschelms.e-pragati.in/#/videos?request=9MXMKrk3%2B3K28RWiqzhSiA%3D%3D>

5. <https://apschelms.e-pragati.in/#/videos?request=Cjq1Ggbe3uJwliqYeLds6w%3D%3D>

6. <https://apschelms.e-pragati.in/#/videos?request=swcvQUJjJfJFX3LGaFuRiQ%3D%3D>

7. <https://apschelms.e-pragati.in/#/videos?request=Hx5enu9X91aszLWFa9Hc4w%3D%3D>

8. <https://apschelms.e-pragati.in/#/videos?request=NRxVG3MTKSbG1bNwZIUvhq%3D%3D>

9. <https://apschelms.e-pragati.in/#/videos?request=oA6sH9X7%2By3xKzBq3UJBqQ%3D%3D>

10. <https://apschelms.e-pragati.in/#/videos?request=64fxwbcCjr4L%2Bi2lGdnaQg%3D%3D>
11. <https://apschelms.e-pragati.in/#/videos?request=h7P9Li%2BcvmTXZd4iV5A%2F7A%3D%3D>
12. <https://apschelms.e-pragati.in/#/videos?request=aNyvImZdhr1v1eqRx5NyzA%3D%3D>
13. <https://apschelms.e-pragati.in/#/videos?request=9MypyR%2FZ8FrPld%2B%2BtPdvLg%3D%3D>
14. <https://apschelms.e-pragati.in/#/videos?request=ih%2FITL26rgRdQCe0HOLBZA%3D%3D>
15. <https://apschelms.e-pragati.in/#/videos?request=02dEaMtST9jtSZt%2BA1yYUw%3D%3D>
16. <https://apschelms.e-pragati.in/#/videos?request=HlHKJNt1gdqz1tUR4B%2FnQ%3D%3D>
17. <https://apschelms.e-pragati.in/#/videos?request=DmDNpNHvRsMmSxZ8aTpZeg%3D%3D>
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30. <https://apschelms.e-pragati.in/#/videos?request=Hx5enu9X91aszLWFa9Hc4w%3D%3D>
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PUBLICATIONS

S.No	NAME OF THE AUTHORS	TITLE OF THE PAPER	NAME OF THE JOURNAL	PAGE No's, VOL & YEAR OF PUBLICATION	ISSN & ISBN No's doi
1.	Dr.A.Sailakumari Dr.G.Jayachnadra Reddy Dr.K.Ramakrishna prasad.	Effect of Viscosity variation on load carrying capacity of squeeze film spherical bearing operation with couple stress fluid.	An International Journal of Engineering and Technology	Page no.21 Volume:3 April-June 2010	ISSN 0974-2824
2.	Dr.A.Sailakumari Dr.G.Viswanatha Reddy Prof.G.Jaya Chandra Reddy	On the static performance of short elliptical hydro-dynamic journal bearing operating with micro polar fluid.	International journal of Emerging technologies and application in Engineering technology and sciences.	July-December 2011,Volume4: Issue2	ISSN:0974-3588

3.	Dr.A.Sailakumari G.JayaChandra Reddy	.Static Performance of a Short Elliptical squeeze film Bearing Operation with couple stress fluids	Proceedings of the National conference on Applications of Mathematics in Engineering Sciences- 2011,Andhra university, Vizaj.	Page no.1	ISBN 978- 81-909853-0- 7.
4.	Dr.A.Sailakumari	Effects of viscosity variation in journal bearings.	Proceedings of the International conference on Science, technologyand Management 2013.	Page no 43-48	
5.	Dr.A.Sailakumari	Performance of Elliptical bearings operating with couple stress fluid.	Proceedings of the International conference on Mathematical Sciences.	ELSEVIER Journal Page no 283- 286.	ISBN-978- 93-5107-261- 4
6.	Dr.A.Sailakumari	Effects of viscosity variation on squeeze film characteristic of long journal bearing operating with non- newtonian fluids.	Proceedings of International conference on Mathematical sciences.2015	Page no.1126- 1131.	Volume 3,Special issue 3,July 2015 ISSN 2345- 30
7.	Dr.A.Sailakumari	“effects of viscosity	special Issue on Computational	page No 88-92.	

8.	Mrs. G.Neeraja Dr.A.Sailakumari	variation o squeeze film characteristic of long journal bearing operating with couple stress fluid”. “The effect of micro polar lubricant on Noncircular Bearings”.	Science, Mathematics and Biology IJCSME- SCSMB-16-March- 2016 ISSN-2349- 8439. International journal ofcomputer and mathematical sciences.	Page No 37-44.	IJCSME- SCSMB- 16-March-2016 ISSN-2349- 84397X IJCMS ISSN 2347- 8527, Vol6, is sue 8, Aug. 2017
9.	Mrs. G.Neeraja Dr.A.Sailakumari	Performance of spiral journal bearings in the presence of additives.	Proceedings of the International conference on International pure and Applied Mathematics	Page No.59	978-93- 87088-01-6. First edition 2018.
10.	Smt. A SailaKumari, P H Nirmala and Mr.C S K Raju	Unsteady MHD Couette flow between two Parallel Plates with Uniform Suction	Research Journal of Science and Technology	Vol. 09 Issue- 03 July - September 2017	ISSN 0975- 4393 (Print) 2349-2988 (Online) DOI: 10.5958/2349 - 2988.2017.00 083.3
11.	Smt. A SailaKumari, P H Nirmal and Mr.C S K Raju	An Integral Vonkarman Treatment of Magnetohydrodyn amicNatuara l convection on Heat and Mass Transfer Along a Radiating Vertical Surface in a Saturated Porous	Journal of Nanofluids	Vol. 7, pp. 1– 9, 2018	Scopus,doi:10 .1166/jon.201 8.1495
12.	Smt. A SailaKumari, P H Nirmala and	Thermal buoyancy on magneto	Journal of Physics:	J. Phys.: Conf. Ser. 1000	doi :10.1088/1742

	Mr.C S K Raju	hydrodynamic flow over a vertical saturated porous surface with viscous dissipation	Conference Series	012074	- 6596/1000/1/0 12074
13.	Dr.A.Sailakumari Dr.M. Madhavalatha Smt.M.Nagasree	<i>"An Inventory Model for Deteriorating items with stock dependent demand and Controllable deterioration rate with Two-Storage Facilities"</i> .	presented in International Conference on Mathematical Sciences, SV University, Tirupati, from 13 -15 July, 2015 International Journal of Scientific and Innovative Mathematical Research (1JSIMR)	ISSN 2347-307X (Print)	Volume 3, Special Issue 2, July 2015, PP 620-625, ISSN 2347-307X (Print)
14.	Dr.A.Sailakumari Dr.M. Madhavalatha Smt.M.Nagasree	<i>"A two Level Inventory Model for Deteriorating Items with Weibull Deterioration and Ramp Type Demand"</i>	<i>presented in "International Conference on Analytics in Operation Research" as a part of 49th Annual Convention of the Operational Research Society of India, from 12-14 December, 2016 at Birla Institute of Management technology, Greater Noida, New Delhi.</i>	Conference proceedings	

15.	Dr.A.Sailakumari Dr.M. Madhavalatha Smt.M.Nagasree	A paper on <i>"An Inventory Model for Deteriorating items with stock dependent demand and controllable deterioration rate with Two-Storage Facilities"</i>	International Journal of Scientific and Innovative Mathematical Research	published in UGC approved journal "International Journal of Scientific and Innovative Mathematical Research",	Volume 3, Special Issue 2, PP No. 620 – 625 in (2015). ISSN 2347-307X(Print) with an Impact factor 4.43.
16.	Dr.A.Sailakumari Dr.M. Madhavalatha Smt.M.Nagasree	A paper was communicated on 26 th , October, 2017 to OPSEARCH on "Optimal Inventory Model with Two Level Storage Under Ramp Type Demand" for springer publications and it is under reviewing.	springer publications		
17.	Smt.T.Suneeta Dr.A.Sailakumari	Magnetohydrodynamic convective double diffusive fluid flow past a vertical plate with varying temperature and convection.	Bulletin of Pure and Applied Sciences Section E-Math.&Stat.	UGC Approved Journal (An International Journal)	ISSN 0970-6577 January-June 2018 Volume37, Number 1
18	Smt.T.Suneeta Dr.A.Sailakumari	Heat and Mass Transfer Characteristics of MHD free convective Rivlin-Ericksen Fluid Flow past a porous plate	International journal of Mathematics trends and technology		ISSN 2231-5373 Page 141.

19.	Dr. A SailaKumari, Smt.P H Nirmala	Comparison of Numerical solutions of non-linear and linear unsteady Burgers' fluid with MHD flow using the shooting technique	International Journal of Innovations in Engineering and Technology (IJET)	Volume 14 Issue 3 October 2019	doi.org/10.21172/ijiet.143.04
20.	Dr. A SailaKumari, Smt.P H Nirmala	Unsteady and steady non-linear state flow of Burgers' fluid in the presence of magnetic field with heat generation /absorption	Bulletin of Pure and Applied Sciences Section - E - Mathematics & Statistics	38E(2), 570-585 (2019) e-ISSN:2320-3226, Print ISSN:0970-6577	DOI: 10.5958/2320-3226.2019.00058.4
21.	Dr. A SailaKumari, Smt.P H Nirmala	Numerical modelling of MHD radiated fluid flow in a saturated permeable media by natural convection heat transfer on vertical surface	Journal of Applied science and Computations (Nation Journal)	Volume VI, Issue VI, JUNE/2019	16.10089.JASC.2019.V6I6.453459.1500101580
22.	Dr.A SailaKumari, P H Nirmala	Linear Unsteady MHD flow of Burgers' fluid with Heat Generation/Absorption over a Stretching surface	Journal of Computer and Mathematical Sciences (An international Research journal)	Vol.10(4),847-856 April 2019	Doi: CMJV10I04P0847
23.	Smt.ch.sridevi and Dr.A.sailakumari	Transient Magnetite-Water nanofluid flow and heat transfer from a vertical	published in AIP Conference Proceedings 2246 , 020067 (2020);	Published Online: 28 July 2020	https://doi.org/10.1063/5.0014421

		oscillating plate”			
24.	Smt.ch.sridevi and Dr. A.sailakumari	Transient Free Convective Flow Of CNT Water NanofluidWith Heat Transfer From A Moving Cylinder” <i>asia.</i>	Published In <i>Nanoscience And Nanotechnology</i>	Published Online: 17 Sep 2020.	DOI : 10.2174/2210681210999200917113354
25	Dr.A.SAILA KUMARI Dr.A.REDDAPPA and P. NAGUR MEERAAH	UNSTEADY MHD BOUNDARY LAYER FLOW AND HEAT TRANSFER OF A CASSON FLUID PAST A STRETCHING SHEET	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(P): 2249–6890; ISSN(E): 2249–8001.	Vol. 10, Issue 3, Jun 2020, 12365-12374 © TJPRC Pvt. Ltd	Impact Factor (JCC): 8.8746 SCOPUS Indexed Journal NAAS Rating: 3.11
26.	Dr.A.Sailakumari Dr.M. Madhavalatha Smt.M.Nagasree	“A comparison of EOQ with JIT”,	International Journal of innovations in Engineering and management research	Vol 09 Issue02, Feb 2020Feb ISSN 2456 – 5083	https://drive.google.com/file/d/1cyvaFnQFftR7eqYXMqNt2XqCHWqn30zs/view?usp=sharing DOI: 14.0001.IJIEM R.2020.V9.I02 .4853
27.	Saila Kumari. A Raghavendra Ratnakaram	Two Dimensional (2-d) Convection and Diffusion Transport Equation of Galactic Cosmic Rays by Linearization with Cole – Hopf Transformation and Conservative Form	International Journal of Creative Research Thoughts (IJCRT) www.ijcrt.org	2022 IJCRT Volume 10, Issue 8 August 2022 ISSN: 2320-2882	www.ijcrt.org

28.	Smt.ch.sridevi and Dr. A.sailakumari	IMPACT OF MOVING OSCILLATING VERTICAL PLATE ON MHD HYBRID NANOFLUID FLOW WITH THERMAL RADIATION	World journal of Engineering Research and Technology . An International Peer Reviewed Journal for Engineering Research and Technology	wjert, 2023, Vol. 9, Issue 1, 36- 54. ISSN 2454-695X	ISSN 2454- 695X SJIF Impact Factor: 5.924 www.wjert.org ISO 9001: 2015 Certified Journal.
29.	Smt.ch.sridevi and Dr. A.sailakumari	Unsteady Magnetohydrodyna mic (MHD) Cu– Al2O3/Water Hybrid Nanofluid Flow and Heat Transfer from an Exponentially Accelerated Plate	Journal of Nanofluids American scientific publishers	2169- 432X/2023/12/8 32/010 Impact factor I 1.739	Journal of Nanofluids Vol. 12, pp. 832–841, 2023 doi:10.1166/jon .2023.1955
30.	Saila Kumari A. and Raghavendra Ratnakaram	COSMIC RAY DETECTOR BY THERMINO PARTICLE DETECTOR USING WEBCAM	World Journal of Engineering Research and Technology www.wjert.org	SJIF Impact Factor: 5.924 wjert, 2023, Vol. 9, Issue 5, XX- XX.	ISSN 2454- 695X SJIF Impact Factor: 5.924
31.	Neeraja Gopalam , Saila Kumari Annareddy	UNSTEADY MHD DISSIPATIVE SQUEEZING FLOW OF CASSON FLUID OVER HORIZONTAL CHANNEL IN THE PRESENCE OF RADIATION AND CHEMICAL REACTION	Journal of Data Acquisition and Processing .	Journal of Data Acquisition and Processing Vol. 38 (2) 2023 page:1991. 7 th April 2023	ISSN: 1004- 9037 https://sjcjycl.c n/ DOI: 10.5281/zenod o.776851
32.	Neeraja Gopalam , Saila Kumari Annareddy	Hall Current and Thermal Radiation Effects on MHD Nanofluid in the Presence of Heat Source/Sink, Brownian Motion and Thermophoresis with Inclined Plates	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	Journal homepage: https://semarak ilmu.com.my/jo urnals/index.ph p/fluid_mechani cs_thermal_scie nces/index ISSN: 2289-7879 2 nd May 2023	https://doi.org/ 10.37934/arfmt s.104.1.XX
33.	Smt.G.Neeraja and Dr. A.sailakumari	Heat source/sink and magnetic field	AIP Conference Proceedings 2649, 030012 (2023)	RESEARCH ARTICLE JUNE 21 2023	https://doi.org/ 10.1063/5.0114 623

		effects on convective flow of a Newtonian fluid over an inclined vertical plate in conducting field			
34.	Raghavendra Ratnakaram Dr.A.Saila Kumari	Transport equation of galactic cosmic rays (GCR) in the atmosphere using differential & partial differential equations	AIP Conference Proceedings 2649, 020005 (2023)	RESEARCH ARTICLE JUNE 21 2023	https://doi.org/10.1063/5.0117450
35.	Dr.A.Saila Kumari Raghavendra Ratnakaram	Cosmic Ray Detector Using Geiger Tubes and Coincident Pulses	Asian Research Journal of Mathematics Volume 19, Issue 10, Page 25-37, 2023; Article no.ARJOM.104015 ISSN: 2456-477X	Published: 07/08/2023	DOI: 10.9734/ARJOM/2023/v19i10723
36.	Dr. A.sailakumari Smt.G.Neeraja	Thermal Diffusion and Diffusion Thermo Effects on MHD 3D Mixed Upper Convective Flow of Maxwell Nanofluid Flow Past using Nonlinear Radiative Heat Flux	CFD Letters 15, Issue 9 (2023) 152-165	Journal homepage: https://semarakilmu.com.my/journals/index.php/CFD_Letters/index ISSN: 2180-1363 T	Article history: Received 17 March 2023 Received in revised form 15 April 2023 Accepted 12 May 2023 Available online 1 September 2023 https://doi.org/10.37934/cfdl.13.9.152165
37.	Dr.A.Sailakumari	Characteristics of MHD Jeffery fluid past an inclined vertical porous plate.	CFD Letters Journal homepage: https://semarakilmu.com.my/journals/index.php/CFD_Letters/index CFD Letters 16, Issue 6	ISSN: 2180-1363	https://doi.org/10.37934/cfdl.16.6.6889

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38.	Dr.A. Saila Kumari and Ratnakaram Raghavendra	Cosmic Ray Diffusion and Evolution: 1d, 2d, and 3d Insights	Journal of Theoretical Physics & Mathematics Research		Online volume 2 Issue3 Published: 2024 June 01
39.	Dr.A. Saila Kumari and Ratnakaram Raghavendra	Exploring cosmic ray energy loss mechanisms: Insights from Bethe-Bloch, modified bethe-bloch, and inverse compton scattering equations	The Scientific Temper (2024) Vol. 15 (2): 2099-2103	E-ISSN: 2231-6396, ISSN: 0976-8653	Doi: 10.58414/SCIENTIFICTEMPER.2024.15.2.20 https://scientifictemper.com/
40.	Dr.A. Saila Kumari and Ratnakaram Raghavendra	Analytical Solutions in Cosmic Ray Transport Modelling: Bridging Insights from 2D and 3D Advection-Diffusion Equations	Chemical Geology		
41.	Dr.A. Saila Kumari and Ratnakaram Raghavendra	Analysing cosmic ray density distribution using variable separable method in diverse spatial domain	Indian Journal of Physics		Indian J Phys https://doi.org/10.1007/s12648-024-03380-4
42.	Dr.A. Saila Kumari	Neural network-assisted analysis of MHD boundary layer flow and thermal radiation effects on SWCNT nanofluids with Maxwellian and non-Maxwellian models	Multiscale and Multidisciplinary Modeling, Experiments and Design (2025) 8:155		https://doi.org/10.1007/s41939-025-00752-z
43.	Dr.A.Sailakumari K.V.S Nagalakshmi	Impatient customer Queue with single working vacation.	Communications on Applied Non linear Analysis	ISSN:1074-133X Vol.32 No. 8s(2025) PAGE 123.	DOI: https://doi.org/10.52783/cana.v32.3613
44.	Dr.A. Saila Kumari	Unveiling the Extraterrestrial Cosmic Ray Spectral Dynamics Beyond Earth's Atmosphere: A Comprehensive Model	Indian Journal of Natural Sciences	Vol.15 / Issue 88 / Feb / 2025 International Bimonthly (Print) – Open Access ISSN: 0976 – 0997	www.tnsroindia.org.in ©IJONS

No. of papers published : National -8

International-27

Conference proceedings-9

Total-44

Ph.d students list:

1. G.Neeraja, M.Phil Dr.A.Sailakumari 2019

2. T.Suneetha,Ph.D Dr.A.Sailakumari 2020

3. M.Nagasree, Ph.D Dr.A.Sailakumari 2020

4. PH.Nirmala, Ph.D Dr.A.Sailakumari 2021

5. Ch.Sreedevi, Ph.D Dr.A.Sailakumari 2023

6. G.Neeraja, Ph.D Dr.A.Sailakumari 2023

7. Raghavendra Ratnakaram, Ph.D Dr.A.Sailakumari 2024